

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/091,985	03/06/2002	Akiyoshi Suzuki	1232-4835	6343	
27123	7590 01/04/2005		EXAM	EXAMINER	
MORGAN & FINNEGAN, L.L.P.			LEE, HWA S		
	NANCIAL CENTER NY 10281-2101		ART UNIT	PAPER NUMBER	
Ź			2877		
			DATE MAILED: 01/04/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

B
V٦

	Application No.	Applicant(s)				
Office Antique Commence	10/091,985	SUZUKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew Hwa S. Lee	2877				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) ■ Responsive to communication(s) filed on <u>ame</u> 2a) ■ This action is <b>FINAL</b> . 2b) ■ This 3) ■ Since this application is in condition for alloware closed in accordance with the practice under Expression in the practice of the prac	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-34 is/are pending in the application 4a) Of the above claim(s) is/are withdrays.</li> <li>5)  Claim(s) 1-23 is/are allowed.</li> <li>6)  Claim(s) 24 and 34 is/are rejected.</li> <li>7)  Claim(s) 25-33 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 24 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Tatian (US 4,958,931).

Tatian shows a system utilizing an achromatic null lens comprising:

dividing a measurement surface of the optical element into at least two segments (8); and

interference-measuring each segment, wherein in measuring a surface shape, a wave front as a measurement reference for a measurement of at least one segment is an aspheric wave front (by use of a null lens).

## Allowable Subject Matter

Claims 1-23 allowed.

Claims 25-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2877

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to show or to suggest an interferometer comprising a wave-front changing unit wherein the wavefront changing unit includes an Alvarez lens pair or wherein the wavefront changing unit changes a fourth order or higher component of a moving radius of the wave-front.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Hwa S. Lee whose telephone number is 571-272-2419. The examiner can normally be reached on Tue-Fr.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley Jr. can be reached on 571-272-2800 ext 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Hwa S. Lee

Examiner Art Unit 2877